No.



9600265

# THE UNIVERD STRAYERS OF AMERICA

<u> Agriculture and Agri-Yood Canada</u>

Differens, there has been presented to the

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH SHEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH GASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERE TO IS, FROM THE SECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY OF A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR OCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN TITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE ASTAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEO.)

**DurumWheat** 

'Dressler'

In Testimony Microst, I have hereunto set my hand and caused the seal of the Hunt Unriety Protection Office to be affixed at the City of Washington, D.C. this twenty eighth day of November in the year of our Lord one thousand nine hundred and ninety-seven.

Marsler J. Stem for Commissioner Plant Variety Protection Office

An Jehilena Socretary of Agriculture

#### Exhibit A.

#### Origin and Breeding History of Dressler

Dressler originated from the cross between Medora / Lloyd which was made by Agriculture and Agri-Food Canada, Cereal Research Centre (Agriculture Canada), Winnipeg in 1984. Medora is a conventional height Durum released by Agriculture Canada in 1982. Lloyd is a semidwarf height Durum released by North Dakota State University in 1983. The originating breeder is Dr. D. Leisle, Agriculture Canada, Winnipeg, MB.

The F<sub>1</sub> and F<sub>3</sub> and F<sub>5</sub> generations were grown in winter nurseries in Brawley, California, while the F<sub>2</sub> and F<sub>4</sub> generations were grown in rust nurseries at Glenlea, MB. Plant selections were made for stem and leaf rust resistance, maturity, height, lodging, and kernel smudge tolerance as appropriate using the pedigree method. Preliminary quality evaluation was begun in F<sub>4</sub>. F<sub>6</sub> lines were grown at Glenlea and selected rows were bulked. Lines with acceptable kernel traits and quality were entered in replicated tests in 1988. The line designated RL 7229 was entered into the Durum Wheat "B" test in 1990, and was tested in the 1991 Durum Wheat Cooperative Test. Random head selections from an F<sub>9</sub> increase plot of RL 7229 were grown as F<sub>10</sub> Canadian Breeders Seed at Glenlea, MB in 1992.

RL 7229 was assigned the experimental designation DT 476 and has been tested in Agripro Breeding Nurseries in North Dakota and Minnesota from 1992-1995. DT 476 was also tested in the 1994 Uniform Regional Durum Nursery at thirteen locations in the US and Canada. A 0.2 acre Initial Seed increase (F<sub>11</sub>) of DT 476 was grown at Berthoud, CO in 1993, using the Canadian Breeders Seed source, followed by a 4.5 acre "*United States*" Breeders Seed increase (F<sub>12</sub>) at Berthoud, CO in 1994. DT 476 was assigned the official name of Dressler in 1995. A Foundation Seed increase (~15 acre) was grown under contract in Belfield, ND in 1995. Registered Seed stocks will be available to Agripro Associate growers in 1996.

Dressler has been uniform and stable since 1993. Less than 0.5% of the plants were rogued from the Breeder Seed field in 1994. Approximately 90% of the rogued variant plants consisted of slightly taller (5 to 15 cm) plants. Up to 0.5% variant plants may be encountered in subsequent generations.

#### Exhibit B.

#### Statement of Distinctness

Dressler is most similar to the spring durum wheat 'Vic'. However, it can be easily distinguished by the following morphological characteristics:

- Dressler has an apiculate shoulder shape on the glume at maturity (Berthoud, CO. 1993, 1994 and 1995). Vic is described as having an elevated shoulder on the glume at maturity (Crop Science Registration No. 638; Vol. 20).
- Dressler has a middeep seed crease (Berthoud, CO 1993, 1994 and 1995). Vic is described as having a shallow seed crease depth (Crop Science Registration No. 638; Vol. 20).

# US DEPARTMENT OFAGRICULTURE AGRICULTURAL MARKETING SERVICE COMMODITIES SCIENTIFIC SUPPORT DIVISION BELLSVILLE, MARYLAND 19705

# OBJECTIVE DESCRIPTION OF VARIETY WHEAT (Tritican Spp.)

TRUCTIONS: See Revere

NAME OF APPLICANTS) Agriculture and Agri-Food Canada	FOR OFFICIAL USE ONLY					
· ·	PVPO NUMBER	aini	0265			
ADDRESS (Saves and No. or R.F.D. No. City, State, and Zip Code) Winnipeg Research Station 195 Dafoe Road Winnipeg, Manitoba	1					
Place the appropriate number that uester are varietal character of this variety in the bo	zes below.					
Place a zero in the first box (e.g. or ) when number is either 99 or less or	or less.	•••				
I. KIND:			-			
1 = COMMON 2 = DURUM 3 = CLUB 4 = OTHER (SPECIFY)	· · · · · · · · · · · · · · · · · · ·					
L VERNALIZATION:	· · · · · · · · · · · · · · · · · · ·	<del></del>	7-W-W-			
1 1 = SPRING 2 = WINTER 3 = OTHER (SPECIFY)						
COLEOPTILE ANTHOCYANIN:	<del></del>					
1 1 = ABSENT 2 = PRESENT			•••			
. JUVENILE PLANT GROWTH:	<del></del>	-				
1=PROSTRATE 2=SEMI-ERECT 3=ERECT	•	*				
PLANT COLOR (boot stage):						
3 I = YELLOW-GREEN 2 = GREEN 3 = BLUE-GREEN		٠	·			
FLAG LEAF (boot stage):						
1 1 = ERECT 2 = RECURVED			•			
1 = NOT TWISTED 2=TWISTED			•.			
EAR EMERGENCE: *Equal to Vic						
NUMBER OF DAYS EARLIER THAN		r.	*			
NUMBER OF DAYS LATER THAN						
ANTHER COLOR:						
1 = YELLOW 2 = PURPLE :		•	:			
PLANT HEIGHT (from soil to top of head, excluding awas) 95cm	•		<u> </u>			
TALLER THAN		_*				
4 cm_SHORTER THAN Vic		*				

<sup>\*</sup> Relative to a PVP-approved commercial variety grown in the same trial

OTHER (specify) \_

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#### Exhibit D.

#### Additional Description of Dressler

Dressler is a conventional height hard amber durum wheat adapted to the traditional Durum areas of North Dakota. Dressler originated from the cross between Medora / Lloyd which was made by Agriculture and Agri-Food Canada, Cereal Research Centre (Agriculture Canada), Winnipeg in 1984. Medora is a conventional height Durum released by Agriculture Canada in 1982. Lloyd is a semidwarf height Durum released by North America State University in 1983. The originating breeder is Dr. D. Leisle, Agriculture Canada, Winnipeg, MB.

Juvenile growth habit is erect. Plant color at boot stage is blue-green. The flag leaf is erect and twisted. Auricle anthocyanin is present and auricle hairs are absent. Waxy bloom is present on the stem, head and flag leaf sheath. The head is strap, awned and middense. Spike position at maturity is erect. Neck is snakey or flexuous. Glumes are long and midwide with apiculate shoulders and acuminate beaks. Seed shape is elliptical. Seed brush is short in length and midsized in size. Seed checks are angular. Seed crease is midwide and middeep.

Agripro Seeds, Inc. maintains seed stock and certified classes of foundation, registered and certified. Registered seed stocks of Dressler will be available in the Spring of 1996. Certified acreage is not to be published by AOSCA and certifying agencies.

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#### Exhibit E.

#### Statement on the Basis of Applicant's Ownership

The variety for which Plant Variety Protection is hereby sought was developed by Dr. D. Leisle an employee of Agriculture and Agri-Food Canada, Winnipeg, MB. By agreement between Dr. Leisle and Agriculture Canada, all rights to Dressler were assigned to Agriculture Canada. Agriculture Canada and Agripro Seeds, Inc. have entered into an agreement that grants Agripro Seeds, Inc. exclusive rights to produce, market, and sell Dressler in the United States.

### Exhibit F.

# Quality And Agronomic Data

Quality Data	 	٠	•	 	 •	•	 •	•••	•	•	 •	٠	 . 1	•		
Agronomic Data	 		٠.										. 2	) <u>.</u> (	&	3

	OVERALL RATING	28	<b>3</b> 2	27 21	24	97.57	77	
	NORRIS	224	218	222 214	218	213 195	204	
	MIX TOL.	2 4	4.5	ഗങ	4	~ 8	7.5	WRRTS HARD-HARDNESS SYNRE ON SERVITURE
<b>≱</b>	~	ហហ	2	5	4.5	40	4.5	RR ON
AGRIPRO DURUM QUALITY	B-CAROT.	6.0	5.9	6.0	6.1 4.5	6.3 5.4	5.9	
A Durum	~	6.6	2.5	2.6	2.5	9	6.5	HARLY
	SEWOL PROT. 14%mb	13.9 13.0	13.5	14.3 12.5	13.4	11.5	11.1	TC_HARD
	~	6,7	2.5	1	7	vom	4.5	NORR
	TEST VI. 1bs/bu	61.5 59.5	60.5	61.6 60.8	61.2	59.1	59.3	8
								AMT IC
	207	展		图 图		<b>展</b>		III.
	Į.	<b>8</b> 8	AVIRACE		AVERACE		AVERACE	R CAROTTANE STANDT TIVA COT OR
YEAR: 1995	VARIET	DRESSLER DRESSLER		VIC		CANDO		TRATTIC.
YEAR	Ħ	88 88		88		88		ONAT THE TRATTE.

6-7-QUESTIONABLE 8-9-LINACCEPTABLE B-CAROTENE-SFROLINA COLOR NORRES-HARD-HARD MIX TOL-MIXOGRAM TOLERANCE 1-2-EXCELLENT 3-4-VERY GOOD 5-ACCEPTABLE RATINGS:

# 1995 Agripro Seeds Agronomic Notes

MO W	WP	1	ī.	Ŋ	5.7
WO	MU	9	60	4	4.3
HT	PR	105	88	100	2.76
SC	Ave.	25	Ŋ	5.7	5.2
SCI	CS	4	4	9	4.7
SCI	PR	ß	r	4	4.7
SC2	GF	9	9	7	6.3
MT	GF	ī.	4	9	5.0
H	GF	7	9	ß	0.9
HD	BR	5	9	i.	5.3
FD	Ave.	5.2	3.8	3.4	4.1
FD1	S	5.7	4.3	4.3	4.8
FD2	GF	4	4	4	4.0
FD1	GF	9	B	2	3.7
	Variety	Vic	Munich	Dressler	Average

FD1=Early Foliar Disease Notes:

FD2=Later Foliar Disease Note

MT=Relative Maturity HT=Height(cm)

HD=Heading

SC2=Later Scab Note SC1=Early Scab Note

WO=Breeder's Worth Note

PR=Park River, ND

BR=Berthoud, CO GF=Fisher, MN

Locations:

MU=Munich, ND CS=Cassetton, ND WP=Brekenridge, MN

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# Comparison of Dressler vs Vic

Variety	Height (cm)	Heading (days)	Data Source
Dressler	93.9 (3.5 cm shorter)	60.5	1994 URDN
Vic	97.4	60.2	(11 locations)
Dressler	100.0 (4.5 cm shorter)	equal	1995 AgriPro
Vic	104.5 Ave. of 4 reps	equal	(Park River, ND)